

O. H. M. S.

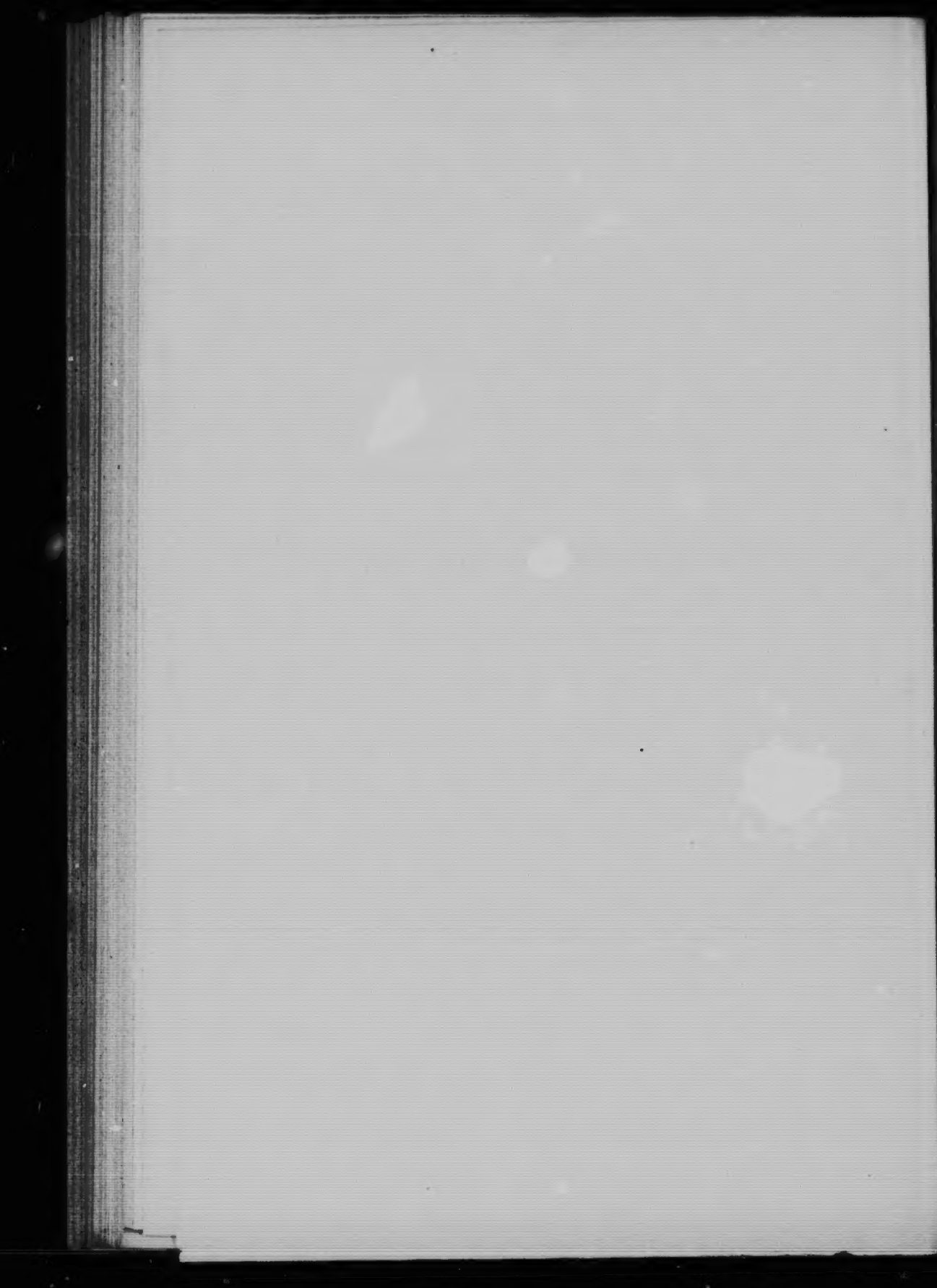
W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 161

Fertilizers as Sold 1908.

(WITH APPENDIX OF REGISTERED FERTILIZERS RECEIVED
TOO LATE FOR INSERTION IN BULLETIN No. 151.)



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 161.

FERTILIZERS AS SOLD.

OTTAWA, September 3, 1903.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to transmit a report upon 119 samples of Agricultural Fertilizers collected by our Inspectors in the various districts of Canada.

The usual difficulties have been found in identifying these fertilizers with registered brands. While much might be done by greater care on the part of dealers who handle these goods, and of our inspectors who purchase them for analysis, I am convinced that until a more rational method of registration is enforced, the difficulty of identifying the article as sold, will continue. This state of things is quite evidently disadvantageous to the purchaser of the fertilizer; and practically deprives him of legal redress.

Fifteen samples appear to represent unregistered brands. Six others are provisionally identified with registered standards, but the identification is doubtfully correct. Ninety-seven samples are apparently equal in value to the standard sample submitted under Sec. 3 of the Fertilizers Act, or to the guaranteed value, or within reasonable limits of such guarantee.

Three (3) samples shew decided deficiency in fertilizing contents, not equalized in values by excess in other contents. These samples are;—

No. 31282	deficiency of about 3 per cent potash
29719	" " " 2 " " "
34300	" " " 2½ " " phosphoric acid

In an appendix to this Bulletin I have arranged 18 samples of Standard Fertilizers, as placed on sale this year, but forwarded to the Department too late to appear in the regular standard list, as printed in Bulletin No. 151, of April last.

I would respectively draw attention to the need of improvement in our Fertilizer legislation; and I trust that the Bill which received first and second readings, in the Senate, in July last, will become law, and go far to render our check upon fertilizers as sold in Canada, a real safe-guarding of the purchaser.

I beg to recommend the publication of this report as Bulletin No. 161.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF NOVA SCOTIA

May 15	Pacific Potato Special.	33675	E. M. Walker, Dartmouth, N.S.	American Agr. Chem. Co., New York.	.....	2101
" 15	Imperial Super-phosphate.	33676	A. L. Melvin & Co., Halifax, N.S.	Provincial Chemical Fertilizer Co., St. John, N.B.	.....	2300
" 15	Ceres Brand	33677	Halifax Seed Store, Halifax, N.S.	Nova Scotia Fertilizer Co., Halifax, N.S.	.....	2100
" 15	Basic Slag	33678	G. F. Roy, Kentville, N.S.	Leeds Phosphate Works, Leeds, England.	.....	2237
" 15	Swift's Lowell Potato Manure.	33679	G. F. Roy, Kentville, N.S.	Swift's Lowell Fertilizer Co., Lowell, Mass.	.....	2123
" 19	Six Per Cent Brand Potato Fertiliser	33680	Burgess & Co., Wolfville, N.S.	Bowker Fertilizer Co., Boston, Mass.	.....	2200
" 19	Complete Manure for Potatoes, Roots and Vegetables.	33681	R. H. Foster, Wolfville, N.S.	Essex Fertilizer Co., Boston, Mass.	.....	2140
" 19	Bradley's Fine Ground Bone.	33682	E. E. Archibald, Wolfville, N.S.	American Agr. Chem. Co., New York.	.....	2146
" 21	Storeckbridge Special Complete Manure.	33683	J. H. Kent & Co., Truro, N.S.	Bowker Fertilizer Co., Boston, Mass.	.....	2101
" 21	Potato Manure...	33684	E. E. McNutt, Truro, N.S.	Pidgeon Fertilizer Co., Windsor, N.S.	.....	2120

DISTRICT OF PRINCE EDWARD ISLAND

May 14	Animal Brand ...	31281	A. Horn & Co., Charlottetown.	Swift's Lowell Fertilizer Co., Boston, Mass.	.....	2127
" 14	Potato Phosphate.	31282	A. Horn & Co., Charlottetown.	" " "	.....	2129
" 18	Ceres Superphosphate.	31283	R. E. Mutch, Charlottetown.	Nova Scotia Fertilizer Co., Halifax, N.S.	.....	2100
" 18	Potato Phosphate.	31284	R. E. Mutch, Charlottetown.	" " "	.....	2181
May 18	Ground Bone	31285	Pool & Thompson, Montague Bridge.	Swift's Lowell Fertilizer Co., Boston, Mass.	2132

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Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.	
	Nitrogen, p.e.		Phosphoric Acid, p.e.						Potash.	Moisture.		Relative value per ton of 2,000 lbs.
	Total including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.					
p. e.	p. e.	p. e.	p. e.	p. e.	p. e.	p. e.	p. e.	p. e.	cts.			

—R. J. WAUGH, INSPECTOR.

Guarantee.....	2.06	2.50	5.00	3.00	2.00	10.00	8.00	2.00	.....	19.00	
Standard Bull. 151.	2.27	2.75	5.62	3.21	2.82	11.65	8.82	2.47	11.10	22.31	
As found.....	1.79	2.19	6.86	2.69	1.24	10.66	9.74	2.97	14.65	20.83	Up to guarantee.
Guarantee.....	2.50	3.40	.....	.....	.....	.....	10.30	2.40	.....	23.25	
Standard Bull. 151.	2.52	3.06	6.75	3.15	2.12	12.05	9.93	.....	8.90	22.86	
As found.....	1.53	1.85	7.80	2.75	1.02	11.40	10.28	1.80	12.85	19.60	Slightly below guarantee.
Guarantee.....	1.65	2.00	.....	.....	2.00	9.00	7.00	2.00	.....	15.91	
Standard Bull. 151.	1.75	2.13	7.22	1.36	1.80	10.40	8.60	4.61	9.90	21.25	
As found.....	1.66	2.26	7.32	1.40	0.76	9.58	8.82	2.70	10.00	20.03	Up to guarantee.
Guarantee.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Standard Bull. 151.	.....	.....	.....	12.35	7.00	20.35	13.35	.....	0.55	16.70	
As found.....	.....	.....	.....	12.00	5.30	17.30	12.00	.....	.....	14.70	Slightly below standard sample.
Guarantee.....	1.65	2.00	.....	.....	.....	8.00	7.00	4.00	.....	17.61	
Standard Bull. 151.	1.54	1.87	5.10	3.75	0.62	9.47	8.85	4.44	6.35	20.11	
As found.....	1.54	1.87	4.50	2.63	0.77	7.90	7.13	4.00	10.15	17.85	Up to guarantee
Guarantee.....	0.82	1.00	.....	.....	.....	7.00	6.00	6.00	.....	15.69	
Standard Bull. 151.	0.84	1.02	5.70	1.85	1.45	9.00	7.55	6.14	10.15	18.31	
As found.....	0.65	1.04	4.88	2.54	1.46	8.88	7.42	6.22	9.50	18.18	
Guarantee.....	2.29	4.00	.....	.....	1.00	7.00	6.00	10.00	.....	25.09	
Standard Bull. 151.	3.61	4.39	4.42	2.75	2.25	9.42	7.17	10.35	6.30	31.63	
As found.....	3.15	3.71	4.18	3.27	0.90	8.25	7.45	10.11	6.15	29.70	
Guarantee.....	2.50	3.00	.....	.....	.....	21.23	.....	.....	.....	.....
Standard Bull. 151.	2.91	3.54	.....	19.50	7.00	26.50	19.50	.....	5.75	33.44	
As found.....	2.42	2.94	.....	17.70	9.40	27.10	17.70	.....	9.70	30.42	Slightly below standard sample.
Guarantee.....	3.29	4.00	.....	.....	.....	7.00	6.00	10.00	.....	28.09	
Standard Bull. 151.	3.11	3.77	5.37	1.88	1.25	8.50	7.25	9.69	7.45	29.15	
As found.....	2.86	3.50	5.25	1.90	1.20	8.35	7.15	10.13	10.55	28.67	Up to guarantee.
Guarantee.....	1.65	2.00	.....	.....	.....	9.00	7.00	5.00	.....	18.91	
Standard Bull. 151.	2.03	2.45	5.80	0.35	1.55	7.70	6.15	5.31	9.10	20.02	
As found.....	1.80	1.82	6.15	1.21	0.44	7.80	7.36	5.07	11.90	19.01	

—T. MOORE, INSPECTOR.

Guarantee.....	2.47	3.00	.....	.....	.....	10.00	8.00	4.00	.....	21.80	
Standard Bull. 151.	2.55	3.09	5.32	4.46	0.05	10.75	9.80	4.19	9.30	24.46	
As found.....	2.14	2.60	7.30	2.13	1.07	11.00	9.33	3.91	11.75	22.57	Up to guarantee.
Guarantee.....	2.47	3.00	.....	.....	.....	9.00	8.00	6.00	.....	23.50	
Standard Bull. 151.	2.60	2.96	4.80	5.32	0.95	11.07	10.12	6.64	6.40	27.20	
As found.....	1.54	1.87	6.46	2.57	1.23	10.25	9.02	3.47	11.40	19.34	Below guarantee in potash.
Guarantee.....	1.65	2.00	.....	.....	2.00	9.00	7.00	2.00	.....	15.91	
Standard Bull. 151.	1.75	2.13	7.22	1.38	1.80	10.40	8.60	4.61	9.90	21.28	
As found.....	3.15	3.82	7.02	1.36	0.62	9.90	9.28	2.78	14.25	24.68	Up to guarantee.
Guarantee.....	1.65	2.00	.....	.....	2.00	9.00	7.00	4.00	.....	17.91	
Standard Bull. 151.	1.69	2.04	8.75	.....	1.30	10.02	8.72	4.82	9.70	21.42	
As found.....	2.80	3.40	4.15	0.80	0.50	5.46	5.00	7.10	15.90	22.77	
Guarantee.....	2.47	3.00	.....	.....	.....	25.00	.....	.....	.....	.....
Standard Bull. 151.	2.63	3.19	.....	17.50	7.25	24.75	17.50	.....	4.50	29.84	
As found.....	2.42	2.94	.....	14.45	12.55	27.00	14.45	.....	2.85	27.40	Slightly below Standard sample in citrate soluble acid.

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF PRINCE EDWARD ISLAND

May 20	Potato Manure. . .	31286	Pool & Thompson, Montague Bridge.	Swift's Lowell Fertilizer Co., Boston, Mass.	.....	2128
" 20	Bone Fertilizer. . .	31287	" " "	" " "	.....	2128
" 26	Thomas Phosphate Powder.	31288	R. J. Holman & Co., Summerside.	Dearborn & Co., St. John.	.....
" 26	Fertilizer Tankage	31289	A. Dewar, Charlottetown.	Laing Packing & Provision Co., Ltd., Montreal.	.....	2116
" 28	Superphosphate. . .	31290	Auld Bros., Charlottetown.	Thos. Vickers & Sons, Manchester.	.....

DISTRICT OF NEW BRUNSWICK

May 12	Reid's Superphosphate of Lime.	29712	Thos. Reid, Parish of Simonds, St. John, Co., N.B.	Thos. Reid, Parish of Simonds, St. John, Co., N.B.	.....	2109
" 14	Swift's Lowell Potato Phosphate.	29713	P. Nasse & Son, Ltd., 2-14 Main St., St. John, N.B.	Swift's Lowell Fertilizer Co., Boston, Mass.	.....	2129
" 15	Bowker's Potato and Vegetable Phosphate.	29714	D. J. Seely & Son, Water St., St. John, N.B.	Bowker Fertilizer Co., Boston, Mass.	.....	2104
" 21	New England Ground Bone.	29715	The Sussex Mercantile Co., Ltd., Sussex, Kings Co., N.B.	New England Fertilizer Co., Boston, Mass.	.....	2137
" 22	Pacific Potato Special.	29716	Toombs & Son, Main St., Moncton, N.B.	Am. Agr. Chem. Co., Boston, Mass.	.....	2161
June 4	Bradley's XL Superphosphate.	29717	Henry E. Hill, King St., St. Stephen, N.B.	" " "	.....	2144
" 4	Imperial Superphosphate.	29718	F. E. Ross, King St., St. Stephen, N.B.	Provincial Chem. & Fertilizer Co., Ltd., St. John, N.B.	.....	2200
" 6	Special Potato Phosphate.	29719	Jas. A. Bell, Queen St., Fredericton, N.B.	" " "	.....	2213
June 8	Read's Potash Manure.	29720	C. P. Phillips, Main Road, Woodstock, N.B.	American Agr. Chemical Co., New York.	.....	2157
" 9	Bradley's High Grade with 10 per cent potash.	29721	James M. Porter & Son, Andover, Victoria Co., N.B.	" " "	2151

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Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.								
	Total, including that of nitric acid or ammoniac present.	Total calculated as ammoniac.	Soluble in water.	Reverted or Chloride Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per lb. of 2,000 lbs.	
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	cts.		

—T. MOORE, INSPECTOR—Continued.

Guarantee.....	1.68	2.00	.....	.....	.....	8.00	7.00	4.00	.....	17 61	
Standard Bull. 151.	1.54	1.87	5.10	3.75	0.68	9.47	8.85	4.44	6.75	20 11	
As found.....	1.43	1.73	4.00	3.94	0.78	8.70	7.94	4.53	1.90	18 74	Up to guarantee.
Guarantee.....	1.68	2.00	.....	.....	.....	9.00	8.00	3.00	.....	17 30	
Standard Bull. 151.	3.07	3.83	5.00	3.03	0.87	9.50	8.63	3.66	4.75	20 54	
As found.....	1.47	1.79	4.30	4.37	0.90	9.27	8.67	3.54	7.60	19 30	" "
.....	
As found.....	.....	.....	.....	12.49	3.00	16.45	13.49	.....	.....	14 84	Not registered.
Guarantee.....	7.60	9.31	.....	.....	.....	10.40	.....	.....	10.00	.....
Standard Bull. 151.	7.55	9.15	5.00	2.55	2.95	10.40	7.60	.....	10.00	33 53	
As found.....	6.39	7.75	6.35	10.55	1.07	11.95	10.80	.....	6.00	32 74	Up to guarantee.
.....	
As found.....	0.18	0.23	17.25	0.90	0.37	18.45	18.18	.....	13.60	22 41	Not registered.

—J. C. FERGUSON, INSPECTOR.

Guarantee.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Standard Bull. 151.	0.09	0.83	1.00	1.30	4.35	9.00	8.57	.....	10.55	10 62	
As found.....	3.81	4.03	1.00	4.06	3.54	9.48	5.04	9.51	17.90	23 31	Up to guarantee.
Guarantee.....	2.47	3.00	.....	.....	.....	9.00	8.00	6.00	.....	23 50	
Standard Bull. 151.	2.60	3.90	4.50	5.32	0.95	11.07	10.12	6.56	6.40	27 30	
As found.....	2.42	2.94	5.37	1.84	0.79	7.98	7.21	6.07	8.75	28 00	" "
Guarantee.....	1.55	2.00	.....	.....	.....	9.00	8.00	3.00	.....	16 71	
Standard Bull. 151.	1.58	2.04	6.13	2.81	2.77	11.70	8.82	2.16	9.60	19 06	
As found.....	1.50	2.30	6.73	2.47	1.73	10.93	9.29	3.06	12.15	20 71	" "
Guarantee.....	2.47	3.00	.....	.....	.....	25.00	.....	.....	.....	.....
Standard Bull. 151.	2.51	3.03	.....	14.23	10.87	25.10	14.25	.....	10.35	26 95	
As found.....	2.42	2.94	.....	18.93	7.88	26.80	18.93	.....	11.00	30 92	" "
Guarantee.....	3.06	3.50	5.00	3.00	3.00	10.00	8.00	3.00	.....	19 90	
Standard Bull. 151.	2.27	2.75	5.63	3.21	2.82	11.65	8.83	3.47	11.10	23 31	
As found.....	1.71	2.07	5.35	2.58	2.47	10.70	8.23	3.03	13.80	19 17	" "
Guarantee.....	2.06	2.80	5.00	3.00	3.00	10.00	8.00	1.50	.....	18 40	
Standard Bull. 151.	2.27	2.75	6.02	0.55	3.00	10.17	7.17	1.73	12.15	18 90	
As found.....	2.13	2.58	7.80	2.43	1.67	11.90	10.23	3.23	15.30	22 00	" "
Guarantee.....	2.80	3.40	.....	.....	.....	10.30	2.40	.....	.....	25 23	
Standard Bull. 151.	2.53	3.00	6.75	3.18	3.13	12.05	9.98	2.06	8.00	22 86	
As found.....	2.31	2.80	4.25	4.03	1.27	9.55	8.29	3.13	7.25	20 90	Nearly up to guarantee.
Guarantee.....	2.55	3.10	.....	.....	.....	8.15	7.20	.....	.....	24 84	
Standard Bull. 151.	2.31	2.81	4.07	3.40	0.87	8.00	7.13	7.27	9.30	23 80	
As found.....	1.52	1.85	6.95	2.63	1.07	10.55	9.46	4.90	9.35	21 51	Low in potash.
Guarantee.....	2.40	3.00	5.00	1.00	1.00	7.00	6.00	10.00	.....	25 55	
Standard Bull. 151.	2.86	3.47	5.43	1.28	3.55	9.25	6.70	9.84	7.25	28 24	
As found.....	2.10	2.55	5.83	2.05	1.07	8.25	7.58	8.19	11.15	24 72	Up to guarantee.
Guarantee.....	2.40	3.00	5.00	1.00	1.00	7.00	6.00	10.00	.....	25 56	
Standard Bull. 151.	2.60	3.20	5.17	2.15	2.10	9.42	7.32	9.84	8.55	28 19	
As found.....	2.37	2.87	4.93	3.60	1.43	9.95	8.83	9.28	10.00	27 63	" "

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF QUEBEC

May 11	Defiance Fertiliser	26413	Nap. Marcotte, Port-neuf.	P. T. Legare, Quebec.	Inspector did not identify with standards. The identification given is therefore subject to question.—A. McG.	2085
" 12	Complete Manure.	26414	Juste Brière, Port-neuf.	Julien & Vezina, Quebec.	.....	.....
" 13	Victor	26432	Joseph Dagenais, Cap Sante.	P. T. Legare, Quebec.	.....	2226
" 26	Complete Fertiliser.	26463	Philias Lehoux, St. Elzear, Beauce.	Albert Landry, St. Elzear, Beauce.	.....	2094
" 26	Standard Bone Potash.	26464	" " ..	Joseph Guay, St. Elzear, Beauce.	.....	2072
" 26	Bilston Basic Phosphate.	26465	" " ..	Samuel Vachon, St. Elzear, Beauce.	Identification uncertain.	2216
" 26	Capelton Chemical Fertiliser.	26466	Edouard Gagnon, Fils, St. Marie, Beauce.	Clovis Mercier, St. Marie, Beauce.	" " ..	2225
" 27	Homestead Corn and Grain Producer.	26467	Jean Sylvain, St. Elzear, Beauce.	Jos. Guay, St. Elzear, Beauce.	.....	2112
" 27	Capelton Chemical Fertiliser.	26468	" " ..	Albert Landry, St. Elzear, Beauce.	Identification uncertain.	2225
" 27	Fruit and Vine...	26470	Appolinaire Drouin, St. Elzear, Beauce.	George Gagnon, St. Marie, Beauce.	.....	2093

DISTRICT OF ST. HYACINTHE

May 11	Bowker Potash Bone Phosphate.	140	A. C. Trempe, Sorel.	Bowker Fertilizer Co., Boston.	.....	2190
" 11	Vermont Phosphate.	141	" " ..	" " ..	.....	2193
" 13	Victor	142	Nap. Quintin, Iboville.	Capelton Chem. & Fertilizer Co., Buckingham.	.....	2226
" 14	Bradley's Eclipse Phosphate for all Crops.	143	Chas. Payne, Granby.	The Am. Agr. & Chem. Co., New York.	.....	2147

—BULLETIN No. 161

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.o.		Phosphoric Acid, p.c.						Relative value per ton of 2,000 lbs.		
	Total including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		Moisture.	
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	¢ cts.	

—E. BELAND, INSPECTOR.

Guarantee.....	1.65	2.00	6.00	2.00	1.00	9.00	8.00	2.00	17 31	Up to guarantee, provided that identification is correct.
Standard Bull. 151.	1.96	2.38	5.37	3.71	1.67	9.75	8.08	2.31	13.35	20 00	
As found.....	1.79	2.18	6.95	1.80	1.20	9.95	8.75	4.38	13.10	21 15	
As found.....	2.13	2.40	3.70	5.13	2.92	11.75	8.83	3.45	13.20	21 65	Apparently not registered.
.....	1.65	2.00	7.00	3.00	Up to guarantee.
.....	2.69	3.28	6.65	1.12	1.35	9.12	7.77	3.70	6.20	23 46	
As found.....	1.23	1.50	2.00	4.40	1.15	7.55	6.40	2.64	4.80	14 41	
Guarantee.....	1.65	2.00	6.00	2.00	1.00	9.00	8.00	4.00	19 31	"
Standard Bull. 151.	1.86	2.28	5.17	3.56	2.37	11.10	8.73	4.32	12.15	21 54	
As found.....	1.54	1.87	5.05	3.40	2.70	11.25	8.45	3.82	12.65	19 67	
.....	1.65	2.00	6.00	2.00	1.00	9.00	8.00	4.00	19 31	"
.....	1.79	2.18	5.37	3.85	1.80	11.02	9.22	4.82	11.20	22 13	
As found.....	1.60	1.94	4.83	3.72	2.70	11.25	8.68	3.82	11.25	19 96	
.....	Apparently up to standard sample.
Standard Bull. 151.	.....	.....	.....	14.25	6.10	20.35	14.25	.....	.....	17 57
As found.....	.....	.....	.....	15.21	5.84	21.05	15.21	.....	.....	18 48
Guarantee.....	1.65	2.00	6 to 7	2 to 3	Up to guarantee.
Standard Bull. 151.	2.77	3.66	5.00	3.45	1.17	9.62	8.45	2.89	5.40	22 45	
As found.....	0.97	1.17	2.40	3.69	1.11	7.20	6.09	3.61	3.25	14 18	
.....	1.65	2.00	6.00	2.00	1.00	9.00	8.00	2.00	17 31	"
.....	2.66	2.87	6.17	3.53	2.30	12.00	9.70	2.24	9.45	23 26	
As found.....	1.54	1.87	3.60	4.90	2.91	11.50	8.59	1.95	12.50	17 87	
Guarantee.....	1.65	2.00	6 to 7	2 to 3	"
Standard Bull. 151.	2.77	3.66	5.00	3.45	1.17	9.62	8.45	2.89	5.40	22 45	
As found.....	1.19	1.45	1.65	4.58	1.30	7.53	6.23	3.59	3.70	15 04	
.....	1.65	2.00	6.00	2.00	1.00	9.00	8.00	10.00	25 31	"
.....	1.79	2.13	4.65	3.03	2.07	9.75	7.68	10.33	12.35	25 95	
As found.....	1.65	2.00	5.88	2.49	2.84	11.20	8.36	8.20	12.90	24 45	

—J. C. ROULEAU, INSPECTOR.

Guarantee.....	0.82	1.00	8.00	6.00	2.00	11 99	Up to guarantee.
Standard Bull. 151	0.98	1.19	3.42	4.38	2.00	9.80	7.80	2.20	14.25	15 05	
As found.....	1.36	1.65	7.90	2.27	0.91	11.08	10.17	2.17	16.15	19 04	
Guarantee.....	2.47	3.00	10.00	8.00	4.00	21 80	"
Standard Bull. 151	2.65	3.11	4.92	3.13	2.35	10.40	8.05	4.82	12.80	23 88	
As found.....	2.60	3.16	6.10	2.90	1.40	10.40	9.00	4.65	14.40	24 42	
Guarantee.....	1.65	2.00	7.00	3.00	Apparently up to guarantee.
Standard Bull. 151	2.69	3.26	6.65	1.12	1.35	9.12	7.77	3.70	6.20	22 46	
As found.....	2.21	2.69	1.75	4.14	1.16	7.05	5.89	3.12	4.85	17 63	
Guarantee.....	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	15 50	Up to guarantee.
Standard Bull. 151	1.31	1.60	6.12	2.73	2.25	11.10	8.85	2.20	6.15	17 68	
As found.....	0.87	1.06	5.35	4.46	1.81	11.62	9.81	1.74	10.30	16 57	

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Register Number.
1906						

DISTRICT OF ST. HYACINTHE

May 15	Potato and Vegetable Phosphate.	144	P. A. Ruiter, Cowansville.	Bowker Fertilizer Co., Boston.		2194
" 15	Corn Phosphate..	145	" " "	" " "		2195
" 18	Superphosphate with Potash.	146	W. M. Taylor, Richmond.	Bowker Fertilizer Co., Boston.		2202
" 19	Alkaline Bone with Potash.	147	Osgood & Sons, Cookshire.	The Am. Agr. & Chem. Co., New York.		2149
" 20	Sure Crop Bone Phosphate.	148	B. J. Smith, Cookcook.	Bowker Fertilizer Co., Boston.		2198
" 21	Sure Crop Bone Phosphate	149	Antoine Tetrault, Ste. Madelaine.	" " "		2198

DISTRICT OF MONTREAL

May 19	Farmers' Choice..	32957	Thomas Cogland, Herdman, P.Q.	Buffalo Fertilizer Co., Buffalo, N.Y.		2186
" 19	Corn Phosphate..	32958	" " "	" " "		2185
" 20	Kainit.....	32959	Wm. Ewing & Co., 142 McGill Street, Montreal.	Taylor, N.Y.....		
" 20	Sure Growth.....	32960	" " "	W. A. Freeman Co., Ltd.		2105
May 20	Bone and Potash..	32961	Wm. Ewing & Co., 142 McGill St., Montreal.	Wm. A. Freeman Co., Ltd.		2101
" 21	Crocker's Complete Manure.	32962	Wm. Rennie Co., 190 McGill St., Montreal.	Am. Agr. Chem. Co., Buffalo Sales Dept.		2090
" 21	Standard Tankage	32963	Wm. Cooper & Co., 338 St. James St., Montreal.	Laing P. & P. Co., Ltd., Montreal.		2116
June 1	Eureka.....	32964	M. O. Ferland, Berthierville, Que.	Capelton Chem. & Fert. Co.		2222
" 1	Victor.....	32965	" " "	" " "		2226
" 1	Celery, Onion and Truck.	32966	" " "	Am. Agr. Chem. Co.		2218

—BULLETIN No. 161.

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.	Relative value per ton of 2,000 lbs.	
	Total including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.		

—J. C. ROULEAU, INSPECTOR—*Concluded.*

Guarantee.....	1.65	2.00				9.00	8.00	2.00		16 71	
Standard Bull. 151	1.68	2.04	6.12	2.81	2.77	11.70	8.93	2.10	9.60	19 08	
As found.....	1.54	1.87	7.10	2.29	1.30	10.78	9.39	1.64	12.85	18 33	Up to guarantee.
Guarantee.....	1.65	2.00				9.00	8.00	2.00		16 71	
Standard Bull. 151	1.74	2.11	5.92	2.86	2.37	11.15	8.78	2.43	11.30	19 31	
As found.....	1.67	2.02	5.97	3.04	1.34	10.35	9.01	1.82	11.75	18 41	" "
Guarantee.....						11.00	10.00	2.00		13 30	
Standard Bull. 151	0.78	0.96	5.57	3.98	3.59	13.05	9.55	2.10	10.00	16 84	
As found.....	0.15	0.91	3.30	8.35	1.75	13.40	11.65	2.02	12.75	16 20	" "
Guarantee.....			5.00	5.00	1.00	12.00	11.00	2.00		13 80	
Standard Bull. 151			6.92	5.58	1.80	14.30	12.50	1.98	8.45	16 96	
As found.....	0.27	0.32	6.80	4.25	1.90	12.95	11.05	1.68	10.50	16 03	" "
Guarantee.....	0.82	1.00				9.00	8.00	2.00		13 89	
Standard Bull. 151	0.91	1.10	5.75	3.13	1.57	10.45	8.88	1.95	11.15	15 86	
As found.....	1.26	1.53	5.60	4.28	1.35	11.23	9.88	1.77	14.40	17 89	" "
Guarantee.....	0.82	1.00				9.00	8.00	2.00		13 89	
Standard Bull. 151	0.91	1.10	5.75	3.13	1.57	10.45	8.88	1.95	11.15	15 86	
As found.....	1.02	1.24	3.63	6.28	2.64	12.55	9.91	1.20	7.20	16 72	" "

—J. J. COSTIGAN, INSPECTOR.

Guarantee.....	0.82	1.00				8.00	5.00			16 59	
Standard Bull. 151	1.01	1.22	5.75	0.80	3.30	9.85	6.55	6.18	14.40	18 38	
As found.....	0.98	1.19	4.62	2.05	4.06	10.72	6.67	4.12	15.55	16 47	Up to guarantee.
Guarantee.....	1.65	2.00				9.00	8.00	2.00		16 71	
Standard Bull. 151	1.74	2.11	5.92	2.86	2.37	11.15	8.78	2.43	11.30	19 31	
As found.....	1.48	1.80	7.53	2.41	1.26	11.30	9.94	2.37	10.00	19 47	" "
Guarantee.....						8.00		24.36		24 36	Not registered.
Standard Bull. 151	3.43	4.16	0.47	5.83	2.90	9.30	6.40	4.61	6.95	24 23	
As found.....	3.19	3.84	3.39	4.46	2.45	10.30	7.85	5.11	11.10	26 67	Up to guarantee.
Guarantee.....	1.65	2.00				9.00		6.00		16 71	
Standard Bull. 151	3.02	3.67	1.22	4.95	2.95	9.12	6.17	6.29	10.10	24 35	
As found.....	3.56	4.20	0.95	7.48	2.36	10.77	8.41	6.46	13.90	28 62	Up to guarantee.
Guarantee.....	0.82	1.00	6.00	2.00	1.00	9.00	8.00	4.00		16 49	
Standard Bull. 151	0.95	1.16	5.50	1.42	2.80	9.72	6.92	4.40	12.15	16 63	
As found.....	0.91	1.11	7.30	2.06	1.24	10.00	9.36	4.26	12.40	18 87	" "
Guarantee.....	7.66	9.31				10.46			10.00	33 83	
Standard Bull. 151	7.56	9.18	5.00	2.50	2.95	10.45	7.50		10.00	33 83	
As found.....	6.94	8.48	0.00	11.17	1.55	13.32	11.77		8.65	37 07	" "
Guarantee.....	2.47	3.00				4.00		4.00		16 95	
Standard Bull. 151	2.27	2.75	1.40	2.50	2.50	6.40	3.90	4.05	5.90	16 95	
As found.....	2.10	2.55	4.48	1.73	1.36	7.57	6.21	4.28	4.75	19 13	" "
Guarantee.....	1.65	2.00				7.00		3.00		17 33	
Standard Bull. 151	2.69	3.26	6.65	1.12	1.35	9.12	7.77	3.70	6.20	22 46	
As found.....	1.39	1.56	5.87	1.81	1.67	9.35	7.68	3.41	6.80	17 33	" "
Guarantee.....	4.11	5.00				4.00		12.00		33 62	
Standard Bull. 151	4.07	4.95	3.67	1.83	1.00	6.50	5.50	12.06	9.45	33 62	
As found.....	4.03	4.90	3.87	2.31	0.97	7.15	6.18	11.79	11.00	33 97	" "

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF OTTAWA

May 18	Victor Complete Fertilizer.	34189	Kenneth McDonald & Sons, Market Sq., Ottawa, Ont.	Capelton Chem. & Fertilizer Co., Buckingham, Que.		2236
" 19	Royal Canadian...	22034	" " "	" " "		2224
" 19	Alberta Thomas Phosphate Powder.	22635	Wm. Gray, Market Square, Ottawa, Ont.	Works H. & E. Albert, London.		2109
" 19	Fine Ground Bone	22636	Graham Bros., Sparks St., Ottawa, Ont.	Am. Agr. Chem. Co., N. Y.		2170
" 19	Alberta Horticultural Manure.	22637	" " "	Chem. Works late H. & E. Albert, Rhine, Germany.		2111
" 28	New Method....	22638	H. Brown & Sons, Brockville, Ont.	The Am. Agr. Chem. Co., N. Y.		2083
" 28	Complete Manure.	22639	" " "	" " "		2085
" 28	Sea Fowl Guano..	22640	" " "	" " "		2084
May 28	Read's Superphosphate.	22641	A. E. Cameron, Brockville, Ont.	The American Agr. Chem. Co., New York.		2152
" 29	Watch Em Grow.	22642	The Standard Fert. and Chem. Co., Smith's Falls, Ont.	The Standard Fert. & Chem. Co., Smith's Falls, Ont.		2115

DISTRICT OF KINGSTON

May 12	High Grade Potash Compound.	35247	Earl Spencer, Picton.	American Agr. Chem. Co., Buffalo, N. Y.		2082
" 12	Bradley's B. D. Sea Fowl Guano.	35248	" " "	" " "		2094
" 12	Bradley's Complete Manure for Potatoes and Vegetables.	35249	" " "	" " "		2015
14	Sure Growth Manure	35250	D. Denton, King St., Cobourg.	W. A. Freeman Co., Ltd., Hamilton.		2105
14	Potato Manure...	35251	Thompson, Macdonald Co., Ltd., Division St., Cobourg.	" " "		2104

—BULLETIN No. 161.

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.					Potash.	Moisture.	Relative value per ton of 2,000 lbs.	
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted Citrate Soluble.	Insoluble.	Total.	Total available.				
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			

—J. A. RICKEY, INSPECTOR.

Guarantee	1.65	2.00				7.00		3.00				
Standard Bull. 151.	2.69	3.26	6.65	1.12	1.35	9.12	7.77	3.70	6.20	22.46		
As found	1.57	1.90	2.40	2.95	1.57	6.92	5.35	3.68	5.35	15.61	Up to guarantee.	
Guarantee	3.29	4.00				9.00		5.00				
Standard Bull. 151.	4.12	5.00	9.65	0.17	1.30	11.12	9.82	6.27	10.15	32.44		
As found	3.05	3.71	8.25	2.18	0.44	10.87	10.43	4.16	6.75	26.97	Nearly up to guarantee.	
Guarantee						17.00						
Standard Bull. 151.						13.00	5.25	13.25	13.00	15.58		
As found						13.25	3.86	17.11	13.25	15.73	Up to guarantee.	
Guarantee	2.50	3.00				21.00						
Standard Bull. 151.	2.38	1.89				14.93	9.82	24.75	14.93	5.15	27.46	
As found	2.38	2.63				14.35	8.20	22.55	14.35	3.33	26.34	" "
Guarantee	11.90	14.45	11.10					15.16		68.94		
Standard Bull. 151.	12.07	14.65	11.10	none	trace	11.10	11.10	15.25	13.95	69.61		
As found	11.19	13.68	12.40	0.94	0.33	13.67	13.34	13.40	5.10	67.16	" "	
Guarantee	0.62	1.00	6.00	2.00	1.00	9.00	8.00	2.00		14.49		
Standard Bull. 151.	2.16	2.65	5.00	1.97	3.00	9.97	6.97	2.10	9.95	18.31		
As found	0.89	1.07	6.85	1.35	1.65	9.85	8.20	2.14	1.65	15.33	" "	
Guarantee	3.29	4.00	6.00	2.00	1.00	9.00	8.00	7.00		27.89		
Standard Bull. 151.	3.36	4.08	6.50	2.82	1.75	10.07	8.32	6.89	10.25	25.44		
As found	3.36	4.03	4.05	1.98	2.72	11.75	9.03	5.77	11.40	28.35	" "	
Guarantee	2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50		18.20		
Standard Bull. 151.	2.25	2.74	5.25	2.40	2.75	10.40	7.65	2.29	10.35	19.71		
As found	2.04	2.48	4.71	3.74	2.99	11.43	8.44	1.81	9.90	19.40	" "	
Guarantee	0.82	1.00	5.00	3.00	2.00	10.00	8.00	4.00		13.69		
Standard Bull. 151.	1.16	1.41	5.42	2.71	2.37	10.50	8.13	5.44	6.55	19.68		
As found	1.05	1.28	7.70	1.95	0.90	10.15	9.65	3.33	12.90	18.56	Up to guarantee.	
Guarantee	3.29	4.00					9.00	8.00		29.08		
Standard Bull. 151.	4.02	4.88	11.00	0.85	1.55	13.40	11.85	7.43	6.70	35.70		
As found	4.03	4.90	10.35	1.33	0.72	12.40	11.68	6.36	10.40	34.16	"	

—J. HOGAN, INSPECTOR.

Guarantee	1.65	2.00	6.00	2.00	1.00	9.00	8.00	10.00		31		
Standard Bull. 151.	2.10	2.55	5.25	1.75	2.50	9.50	7.00	9.96	13	36		
As found	1.56	1.92	6.93	1.97	1.35	10.25	8.90	9.82	11	66	Up to guarantee.	
Guarantee	2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50		18.20		
Standard Bull. 151.	2.25	2.74	5.25	2.40	2.75	10.40	7.65	2.29	10.35	19.71		
As found	3.05	3.71	5.20	4.12	1.91	11.23	9.32	5.83	11.35	27.54	Up to guarantee.	
Guarantee	3.23	4.00	6.00	2.00	1.00	9.00	8.00	7.00		27.89		
Standard Bull. 151.	3.36	4.08	5.50	2.82	1.75	10.07	8.32	6.89	10.25	25.44		
As found	3.39	4.11	5.15	4.12	1.53	10.80	9.27	7.50	12.05	30.30	"	
Guarantee	2.88	3.50				3.00		3.00				
Standard Bull. 151.	3.43	4.16	0.47	5.93	2.90	9.30	3.40	4.61	6.95	21.23		
As found	2.48	3.01	1.55	5.75	3.85	11.15	7.30	2.87	10.30	20.64	Nearly up to guarantee.	
Guarantee	2.47	3.00				8.00		5.00				
Standard Bull. 151.	3.05	3.71	0.87	5.33	2.35	9.55	6.20	5.96	7.45	24.24		
As found	2.76	3.35	1.20	6.16	1.47	10.83	7.36	6.25	8.65	24.86	Up to guarantee.	

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF KINGSTON

May 14	Lawn Fertiliser...	35252	Thompson, Macdonald Co., Ltd., Division St., Cobourg.	W. A. Freeman Co., Ltd., Hamilton.	.....	2265
" 14	Bone and Potash..	35253	" " ..	" " ..	.....	2101

DISTRICT OF TORONTO

May 13	Crocker's Best Potash Fertilizer.	35114	L. H. Weaver, Dunnville.	American Agr. Chem. Co., Buffalo, N.Y.	.....	2069
" 14	Crocker's Wheat and Corn Fertilizer.	35115	Thos. Wigg, Cayuga.	" " ..	.....	2067
" 15	Crocker's Complete Manure.	35716	R. Moore & Son, Welland.	" " ..	.....	2080
" 15	Crocker's New York Special Phosphate.	35117	John Spencer, Port Colbourne.	" " ..	.....	2066
" 16	Bradley's B.D. Sea Fowl Guano.	35118	Fitterington Bros., St. Catharines.	" " ..	.....	2064
" 20	Pure Ground Bone	35119	H. St. Clair Fisher, Queenston.	" " ..	Uncertain identification.	2146 2163 2170 2188
" 20	Celery and Potato Special.	35120	C. Field, Niagara on the Lake P.O.	Buffalo Fert. Co., Buffalo, N.Y.	.....	2188
" 20	Farmers' Choice..	35121	" " ..	" " ..	.....	2186
" 21	Celery and Early Vegetable Manure.	35122	W. A. Freeman & Co., Ltd., 57 Ferguson ave., South Hamilton.	W. A. Freeman & Co., Ltd., 57 Ferguson ave., South Hamilton.	.....	2103
" 23	Potato and Truck Manure.	35123	P. A. Bart, Oakville, Ont.	International Seed Co., Rochester, N.Y.	.....	2067

DISTRICT OF LONDON

May 26	Queen City Fertilizer.	30925	Vedien & Co., Flour & Feed Store.	Steel, Briggs & Co., Toronto.	
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—BULLETIN No. 161.

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.				
	Nitrogen, p.c.		Phosphoric Acid, p.c.												
	Total including that of nitric acid or arsenic if present.	Total calculated as ammonia.	Soluble in Water.		Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.					
			p. c.	p. p.	p. c.	p. p.	p. c.	p. c.				p. c.	p. c.	p. c.	p. c.
										cts.					

—J. HOGAN, INSPECTOR—*Continued.*

Guarantee.....	3 00	9 00	4 00	Up to guarantee.
Standard.....	1 74	2 11	2 15	4 29	6 07	12 50	6 43	5 21	6 85	20 24	.....
As found.....	2 30	2 79	3 63	4 80	3 02	11 35	8 33	6 65	10 35	24 92	.....
Guarantee.....	1 65	2 00	9 00	6 00	Nearly up to standard.
Standard Bull. 151.	3 02	3 67	1 22	4 95	2 95	9 12	6 17	6 29	10 10	24 35	.....
As found.....	2 95	3 59	1 25	5 63	2 82	9 90	7 08	4 86	9 70	23 65	.....

—H. J. DAGER, INSPECTOR.

Guarantee.....	1 65	2 00	6 00	2 00	1 00	9 00	8 00	10 00	25 31	Up to guarantee.
Standard Bull. 151.	1 75	2 13	5 25	2 92	2 20	10 39	9 17	10 00	12 25	26 12	
As found.....	1 69	2 06	7 62	1 47	1 51	10 60	9 09	7 98	12 05	24 94	
Guarantee.....	2 06	2 50	6 00	2 00	1 00	9 00	8 00	1 50	18 20	"
Standard Bull. 151.	2 41	2 92	5 00	3 38	3 12	11 50	8 38	2 02	10 15	20 87	
As found.....	2 00	2 43	5 50	4 03	2 50	12 03	9 53	7 40	12 40	25 08	
Guarantee.....	0 82	1 00	6 00	2 00	1 00	9 00	8 00	4 00	16 49	"
Standard Bull. 151.	0 95	1 16	5 50	1 42	2 80	9 72	6 92	4 40	12 15	16 63	
As found.....	0 70	0 86	9 50	2 16	1 24	12 90	11 66	4 37	10 40	20 90	
Guarantee.....	8 00	2 00	1 00	11 00	10 00	8 00	20 10	"
Standard Bull. 151.	0 31	0 37	9 50	0 25	1 25	11 00	9 75	7 74	10 05	20 84	
As found.....	0 21	0 26	8 13	3 52	0 85	12 50	11 65	7 68	11 75	22 28	
Guarantee.....	2 06	2 50	6 00	2 00	1 00	9 00	8 00	1 50	18 20	"
Standard Bull. 151.	2 25	2 74	5 25	2 40	2 75	10 40	7 65	2 29	10 35	19 71	
As found.....	1 93	2 35	4 30	4 31	3 49	12 10	8 61	1 89	9 65	19 40	
Guarantee.....	21-23	"
Standard Bull. 151.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As found.....	2 30	2 79	.....	10 00	10 3	30 35	10 00	.....	4 15	21 41
Guarantee.....	1 65	2 00	8 00	10 00	24 41	"
Standard Bull. 151.	1 72	2 09	4 62	1 40	3 65	9 67	6 02	10 81	13 60	24 84	
As found.....	1 76	2 14	5 10	3 82	3 88	12 80	8 92	7 60	16 00	25 07	
Guarantee.....	0 82	1 00	8 00	5 10	16 50	"
Standard Bull. 151.	1 01	1 22	5 75	0 80	3 30	9 85	6 55	6 18	14 40	18 38	
As found.....	1 04	1 25	6 15	2 02	4 01	12 18	8 17	4 23	12 50	18 62	
Guarantee.....	4 12	5 00	9 00	5 00	Up to standard.
Standard Bull. 151.	5 50	6 65	0 85	6 03	2 37	9 25	6 88	4 96	9 15	32 02	
As found.....	4 45	5 44	trace	10 91	1 19	12 10	10 91	6 53	12 80	34 07	
Guarantee.....	1 25	1 50	6 00	2 00	1 00	9 00	8 00	7 00	20 95	Nearly up to guarantee.
Standard Bull. 151.	2 10	3 55	5 00	2 88	2 37	10 25	7 88	7 26	11 40	24 28	
As found.....	1 23	1 50	4 70	4 20	1 50	10 40	8 90	4 95	17 05	19 85	

—T. A. KIDD, INSPECTOR.

As found.....	2 00	2 12	7 5	6 23	2 07	10 05	7 08	3 18	14 00	21 43	Not registered.
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FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Register Number.
1906.						

DISTRICT OF WINDSOR

May 16	Fertilizer	34547	J. G. Eidt, Berlin...	W. A. Freeman, Hamilton.		2103
June 9	"	34555	J. B. Hay, Brantford	Am. Agr. Chem. Co., N.Y.	Identification uncertain.	
" 9	Bone Meal.....	34573	Darch & Hunter, London.	Michigan Carbon Works, Detroit.		2244

DISTRICT OF MANITOBA

June 10	Fertilizer	33150	The Steele - Briggs Seed Co., Ltd., Winnipeg.	The Steele - Briggs Seed Co., Ltd., Toronto, Hamilton & Winnipeg.		
" 10	Lawn Fertilizer...	33151	Wm. Rennie & Co., Ltd., Winnipeg.	Wm. Rennie & Co., Ltd., Toronto		
" 11	Soda Nitrate.....	33152	The Bale Drug Co., Winnipeg.	Not given.....		2056
" 12	Tankage Fertilizer	33153	Gallagher, Holman & Lafrance, Winnipeg.	Gallagher, Holman & Lafrance, Winnipeg		
" 12	Blood Fertilizer...	33154				
" 19	Unground Tankage.	33155	J. F. Griffin & Co., Winnipeg.	J. F. Griffin & Co., Winnipeg.		
" 23	Lawn Fertilizer...	33156	A. E. Mackenzie & Co., Ltd., Brandon	Dom. Fish Co., West Selkirk.		

DISTRICT OF CALGARY

June 24	Fertilizer, Blood & Bone.	28955	J. F. Griffin & Co., Calgary.	J. T. Griffin & Co., Winnipeg.		
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DISTRICT OF VANCOUVER

May 15	Fertilizer "B" Grade.	34295	Brackman & Ker, Vancouver.	Victoria Chem. Co., Victoria.		2233
" 16	Bone Meal.....	34296	M. J. Henry, Vancouver.	Portland Seed Co., Portland, Oregon.		2052
" 16	Nitrate of Soda...	34297	" " ..	Victoria Chem. Co., Victoria.		2237

—BULLETIN No. 161.

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst
	Nitrogen, p.c.		Phosphoric Acid, p.c.								
	Total, including that of nitro acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		

—J. TALBOT, INSPECTOR.

Guarantee	4.12	5.00	9.00	5.00	Up to guarantee.
Standard Bull. 151	5.50	6.68	0.85	6.08	2.37	9.25	6.88	4.96	9.15	32.03	
As found	4.35	5.29	2.06	4.29	1.81	8.15	6.34	6.86	10.60	29.40	
Guarantee	Probably registered but not certainly identifi- able.
Standard Bull. 151	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As found	6.69	10.47	trace	1.79	0.29	2.08	1.79	6.50	8.25	37.86	
Guarantee	1.50	25.00	31.47	Up to guarantee.
Standard Bull. 151	1.22	1.48	.....	16.75	14.50	31.25	16.75	.....	1.50	26.68
As found	1.53	1.85	.....	19.90	12.30	32.20	19.90	.....	2.45	30.48

—A. E. LARIVIERE, INSPECTOR.

As found	3.30	4.11	1.30	2.81	3.52	7.63	4.11	6.83	5.95	24.06	Cannot be identified with any standard, and appears to be unregistered.
As found	1.33	1.63	trace	9.91	2.37	12.78	9.91	0.60	1.75	16.86	
Guarantee	14.82	18.00	80.39	Identification doubtful Probably unregistered. Not registered.
Standard Bull. 151	14.42	17.60	.....	.....	.....	.....	.....	.....	1.00	49.03
As found	10.25	12.44	.....	.....	.....	.....	.....	.....	0.50	34.85
As found	4.00	4.86	0.50	12.95	1.70	15.16	13.45	16.25	28.16	"
As found	10.86	13.19	.....	2.26	0.35	2.61	2.26	.....	20.82	37.34
As found	6.16	7.48	0.25	11.83	3.37	15.45	12.06	.....	6.85	34.04
As found	6.51	7.91	trace	5.07	4.66	9.73	5.07	0.90	11.99	39.00	"

—R. W. FLETCHER, INSPECTOR.

As found	6.23	7.57	12.63	3.57	16.20	12.63	5.75	35.00	Not registered.
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—J. F. POWER, INSPECTOR.

Guarantee	3.50	9.00	11.00	Up to guarantee.
Standard Bull. 151	2.53	3.08	7.52	0.56	0.42	8.50	8.08	14.06	12.60	32.43	
As found	0.50	0.61	11.70	0.34	0.29	12.33	12.04	11.73	8.90	28.03	
Guarantee	3.33	4.04	21.12	15.95	29.75	"
Standard Bull. 151	3.50	4.25	.....	.....	5.87	21.00	15.13	.....	6.05	29.60
As found	3.32	4.03	.....	14.65	8.45	23.10	14.65	.....	5.10	29.27
Guarantee	16.00	54.40	Up to standard.
Standard Bull. 151	12.80	15.54	.....	.....	.....	.....	.....	.....	0.75	43.52
As found	13.57	16.48	.....	.....	.....	.....	.....	.....	0.60	46.14

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report.	Register Folio.
1906.						

DISTRICT OF VANCOUVER

May 16	Muriate of Potash.	34396	M. J. Henry Vancouver.	Victoria Chem. Co., Victoria.		2386
" 16	Fertilizer "B" Grade.	34399	Wm. Reenie, Vancouver.	" " "		2386
" 16	Bone Meal.....	34300	" " "	Portland Seed Co., Portland, Oreg.		2403
" 18	"	34301	Brackman & Ker, Vancouver.	Lilly & Co., Seattle...		2329
" 18	Fertilizer "B" Grade.	34302	" " "	Victoria Chem. Co., Victoria.		2383
" 18	Fish Guano. . . .	34303	" " "	Fraser River Fish & Guano Co., Vancouver.		2054
" 18	Fertilizer "D" Grade.	34304	" " "	Victoria Chem. Co., Victoria.		2386

DISTRICT OF VICTORIA

May 29	Bone Fertilizer ...	34676	Sylvester Feed Co., Victoria, B.C.	Sylvester Feed Co., Victoria, B.C.		2386
" 29	Whale Fertilizer..	34677	Pacific Whaling Co., Victoria, B.C.	Pacific Whaling Co., Victoria, B.C.		
" 29	Bone Meal.....	34678	" " "	" " "		
" 30	Fertilizer "B"...	34679	Brackman & Ker, Milling Co., Victoria, B.C.	Victoria Chem. Co., Ltd., Victoria, B.C.		2339
" 30	Salmon Guano....	34680	" " "	Fraser River Oil & Guano Co., Ltd., Vancouver, B.C.		2054
June 16	Superphosphate of Lime.	34681	Victoria Chem. Co., Ltd., Victoria, B.C.	Victoria Chem. Co., Ltd., Victoria, B.C.		2336
" 16	Fertilizer "C"...	34682	" " "	" " "		2334
" 16	Nitrate of Soda...	34683	" " "	" " "		2337

—BULLETIN No. 161.

Sample.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.c.		Phosphoric Acid, p.c.								
	Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Cloudy Soluble.	Insoluble.	Total.	Total available.	Potash.	Magnesia.	Relative value per ton of 2,000 lbs.	
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	¢ etc.		

—J. F. POWER, INSPECTOR—Continued.

Guarantee								50.00		50.00	
Standard Bull. 151.								48.04		48.04	
As found.....								49.28	0.25	49.28	Up to guarantee.
Guarantee	3.50					9.00		11.00			
Standard Bull. 151.	2.53	3.08	7.53	0.56	0.43	8.50	8.08	14.08	12.00	32.43	
As found.....	2.94	3.48	7.09	0.21	0.23	8.13	7.81	13.61	8.00	32.71	Up to standard.
Guarantee	3.23	4.04				21.12	15.90			29.75	
Standard Bull. 151.	3.50	4.25				8.87	21.00	15.13	6.00	29.00	
As found.....	3.51	4.27		11.46	5.26	16.70	11.48		5.00	26.43	Below guarantee in Phosphoric acid.
Guarantee	4.21					19.08					
Standard Bull. 151.	3.21	3.89		16.50	9.75	26.25	16.00		1.19	31.36	
As found.....	3.95	4.79		14.15	7.60	31.75	14.15		5.40	30.49	Up to guarantee.
Guarantee	3.50					9.00		11.00			
Standard Bull. 151.	2.53	3.08	7.53	0.56	0.43	8.50	8.08	14.08	12.00	32.43	
As found.....	2.94	3.57	7.25	0.23	0.26	7.73	7.67	15.00	8.75	34.08	Up to standard.
Guarantee	8.31	10.09				6.33			6.55		
Standard Bull. 151.	8.96	10.71	1.00	5.25	1.33	7.57	6.25		5.95	36.04	
As found.....	8.44	10.26	0.64	7.80	1.60	10.18	8.49		7.30	36.19	Up to guarantee.
Guarantee	2.50					10.00		11.00			
Standard Bull. 151.	2.07	2.58	7.44	0.54	1.53	9.50	7.98	11.78	12.25	26.80	
As found.....	2.04	2.48	10.65	0.26	trace	10.85	10.85	10.64	18.25	30.58	" "

—D. O. SULLIVAN, INSPECTOR.

Guarantee	4.00					24.00					
Standard	2.14	2.60		9.20	4.25	13.55	9.20		5.05	18.27	
As found.....	1.99	2.42		8.55	6.25	14.90	8.55		6.06	17.68	Up to standard.
As found.....	9.40	11.42	0.23	4.13	2.77	7.13	4.36		6.49	35.73	Not registered.
As found.....	2.98	3.63		14.19	14.50	28.66	14.10		4.60	29.49	"
Guarantee	3.50					9.00		11.00			
Standard Bull. 151.	2.53	3.08	7.53	0.56	0.42	8.50	8.08	14.08	12.00	32.43	
As found.....	3.23	3.91	7.10	0.45	trace	7.55	7.55	12.08	10.43	32.02	Up to guarantee.
Guarantee	8.31	10.09				6.33			6.55		
Standard Bull. 151.	8.96	10.71	1.00	5.25	1.33	7.57	6.25		5.95	36.04	
As found.....	8.06	9.80	1.00	7.07	1.06	9.73	8.07		10.70	35.27	"
Guarantee						16.00					
Standard Bull. 151.			15.55	4.06	1.15	20.75	19.60			25.46	
As found.....			12.00	4.00	3.20	19.20	16.00		6.96	19.79	"
Guarantee						13.50		11.00			
Standard Bull. 151.			11.20	0.98	0.37	12.55	12.18	12.18		26.79	
As found.....			10.40	0.13	0.30	10.83	10.53	13.25	8.15	25.93	Nearly up to guarantee.
Guarantee	16.00									54.40	
Standard Bull. 151.	12.80	15.54							0.75	43.53	
As found.....	22.98	15.75							1.25	44.08	Up to standard, but not to GUARANTEE.

FERTILIZERS AS SOLD

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report.	Register Number.
1908.						

DISTRICT OF VICTORIA

June 16	Sulphate of Potash.	34884	Victoria Chem. Co., Ltd., Victoria, B.C.	German Kali Works, Stansfort, Germany.	.....	2236
" 10	Muriate of Potash.	34885	" " "	" " "	.....	2230

—BULLETIN No. 161.

Samples.	RESULTS OF ANALYSIS.										Remarks and Opinion of the Chief Analyst.
	Nitrogen, p.e.		Phosphoric Acid, p.e.								
	Total including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	T. L.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 p.e.	
p. e.	p. e.	p. e.	p. e.	p. e.	p. e.	p. p.	p. e.	p. o.	cts.		

D. O. SULLIVAN, INSPECTOR—Concluded.

Guarantee.....	50.00	50.00	Up to standard.
Standard Bull. 151.	.....	.....	.....	.....	.....	.....	47.98	.....	47.98
As found.....	.....	.....	.....	.....	.....	.....	48.04	1.56	48.04
Guarantee.....	.....	.....	.....	.....	.....	.....	50.00	.....	50.00
Standard Bull. 151.	48.04	48.04	"
As found.....	.....	.....	.....	.....	.....	.....	49.40	3.23	49.40

APPENDIX TO BULLETIN 161—FERTILIZERS REGISTERED FOR 1908 RECEIVED TOO LATE FOR INSERTION
IN BULLETIN 151.

RESULTS OF ANALYSIS.																													
Date when Advised.	Designation.	No. of Sample.	Name and Address of Manufacturer.	By whom Sent.		Nitrogen, p.c.			Phosphoric Acid, p.c.						Potash.	Moisture.	Relative value per ton of 2,000 lbs.												
						Total, including that of nitric acid or ammonia if present.	Total calculated as ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.																	
1908.						p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.												
June 16	Ohlendorff Basic Slag.	2201	Anglo Continental Co., London, Eng. (late Ohlendorff).	H. H. McNutt, Lower Truro, N.S.	Guaranteed contents as found..	11.48	12.45	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	15.72		
"	" Basic Slag (Bilston).	2252	Alfred Hickman & Co., Bilston, Eng.	E. E. McNutt, Truro, N.S.	Guaranteed contents as found..	11.48	12.45	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	21.00	17.46	13.83	6.47	17.15		
"	" Crocker's Dissolved Bone Phosphate.	2253	Am. Agr. Chem. Co., Buffalo.	Manufacturers.	Guaranteed contents as found..	0.18	0.22	15.43	1.60	0.70	17.73	1.60	0.70	17.73	1.60	0.70	17.73	1.60	0.70	17.73	1.60	0.70	17.73	1.60	0.70	17.73	21.10		
"	" Crocker's High Grade Special Fertilizer.	2254	"	"	Guaranteed contents as found..	1.68	2.3	6.7	2.3	1.2	9.11	2.3	1.2	9.11	2.3	1.2	9.11	2.3	1.2	9.11	2.3	1.2	9.11	2.3	1.2	9.11	4.5		
"	" Sulphate of Potash.	2255	"	"	Contents as found..	1.83	2.23	7.75	1.56	0.80	10.20	1.56	0.80	10.20	1.56	0.80	10.20	1.56	0.80	10.20	1.56	0.80	10.20	1.56	0.80	10.20	20.13		
"	" High Grade Ground Blood.	2256	"	"	Guaranteed contents as found..	9.84	12.14	11.48	11.48	0.11	1.25	0.27	1.03	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	50.86		
"	" Kainit.	2257	"	"	Contents as found..	11.26	13.67	11.26	11.26	0.11	1.25	0.27	1.03	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	8.75		
"	" Muriate of Potash.	2258	"	"	Contents as found..	11.26	13.67	11.26	11.26	0.11	1.25	0.27	1.03	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	12.00		
"	" Nitrate of Soda.	2259	"	"	Guaranteed contents as found..	15.80	19.0	15.80	15.80	0.11	1.25	0.27	1.03	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	50.50		
"	" Pure Ground Bone.	2260	"	"	Guaranteed contents as found..	3.30-4	4.5	30.60	30.60	4.5	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	54.47		
"	" Bone Meal.	2261	Buffalo Fertilizer Co., Buffalo, N.Y.	Makers.	Contents as found..	2.98	3.62	14.45	14.45	7.90	22.35	14.45	7.90	22.35	14.45	7.90	22.35	14.45	7.90	22.35	14.45	7.90	22.35	14.45	7.90	22.35	4.65	27.70	
"	" Bone Meal.	2261	Buffalo Fertilizer Co., Buffalo, N.Y.	Makers.	Guaranteed contents as found..	2.57	3.44	16.20	16.20	7.00	22.20	16.20	7.00	22.20	16.20	7.00	22.20	16.20	7.00	22.20	16.20	7.00	22.20	16.20	7.00	22.20	16.20	3.00	30.92

"	20 Muriate of Potash ..	2262	"	"	"	Guaranteed contents	9.84	12.00	0.15	1.44	0.44	2.03	1.50	48.00	0.25	48.56
"	20 Dried Blood	2263	"	"	"	Contents as found...	11.62	14.11	0.15	1.44	0.44	2.03	1.50	55.56	0.25	55.56
"	20 Nitrate of Soda	2264	"	"	"	Guaranteed contents	15.00	18.25							9.25	30.06
"	20 Nitrate of Soda	2264	"	"	"	Contents as found...	14.84	18.02							6.40	50.45
July	7 Freeman's Lawn Dressing.	2265	W. A. Freeman Co., Hamilton	"	"	Guaranteed contents	1.74	2.11	2.15	4.29	6.07	12.50	6.43	4.45	6.85	20.25
"	30 Tankage	2266	P. Burns & Co., Calgary	"	"	Guaranteed contents	6.69	8.12	trace	5.87	2.91	6.78	7.40	5.21	3.78	31.55
"	30 Dried Blood	2267	"	"	"	Contents as found...	11.33	13.75							15.46	37.99
"	28 Bone Fertilizer	2268	Sylvester Feed Co., Victoria, B.C.	"	"	Guaranteed contents	10.74	13.04		8.00	0.77	3.77	3.00		7.50	37.99
"	28 Bone Fertilizer	2268	Sylvester Feed Co., Victoria, B.C.	"	"	Contents as found...	4.00	2.60		9.20	4.35	10.55	9.20		5.05	18.27

* 28 to 45 per cent phosphate of which 80 per cent is citrate soluble. † 90 to 95 per cent sulphate of potash.